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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/720,812	11/24/2003	Jung S. Kang	42P17606 5364	
75	90 12/21/2005		EXAM	INER
Blakely, Sokol	loff, Taylor & Zafman	BLUM, DAVID S		
Suite 750			APTIBUT	DA DED AULADED
3200 Park Center Drive			ART UNIT	PAPER NUMBER
Costa Mesa, CA	A 92626	2813		
			DATE MAILED: 12/21/2006	e

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)	(Ans)
		10/720,812	KANG ET AL.	(h)
Office Action Su	mmary	Examiner	Art Unit	
		David S. Blum	2813	
The MAILING DATE of Period for Reply	this communication app	ears on the cover sheet wit	h the correspondence addre	?SS
A SHORTENED STATUTOR' WHICHEVER IS LONGER, F - Extensions of time may be available unafter SIX (6) MONTHS from the mailing - If NO period for reply is specified above - Failure to reply within the set or extended Any reply received by the Office later the earned patent term adjustment. See 37	ROM THE MAILING DA der the provisions of 37 CFR 1.13 date of this communication. , the maximum statutory period we and period for reply will, by statute, an three months after the mailing	ATE OF THIS COMMUNIC 36(a). In no event, however, may a re rill apply and will expire SIX (6) MONT cause the application to become ABA	ATION. ply be timely filed HS from the mailing date of this community NDONED (35 U.S.C. § 133).	
Status				
	2b)⊠ This in condition for allowar	action is non-final.	ers, prosecution as to the m 11, 453 O.G. 213.	ierits is
Disposition of Claims				
4)	s) <u>1-8,13,14,21,22 and</u> llowed. <u>and 24</u> is/are rejected. bjected to.	<u>25-48</u> is/are withdrawn fror	m consideration.	
	atad ta bu tha Evamina	_		
	24 November 2005 is/a that any objection to the et(s) including the correct	re: a)⊠ accepted or b)□ drawing(s) be held in abeyand ion is required if the drawing(s	ce. See 37 CFR 1.85(a). s) is objected to. See 37 CFR	1.121(d).
Priority under 35 U.S.C. § 119				
2. Certified copies of the cer	None of: f the priority documents f the priority documents tified copies of the prior he International Bureau	s have been received. s have been received in Aprity documents have been in (PCT Rule 17.2(a)).	oplication No received in this National Sta	age
Attachment(s) 1) Notice of References Cited (PTO-8 2) Notice of Draftsperson's Patent Dra 3) Information Disclosure Statement(s Paper No(s)/Mail Date	wing Review (PTO-948)	Paper No(s)	ummary (PTO-413) /Mail Date formal Patent Application (PTO-15 	52)

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This action is in response to the election filed 9/22/05.

DETAILED ACTION

Election/Restrictions

1. Applicant's election without traverse of claims 9-24 in the reply filed on 9/22/05 is acknowledged.

2. Claims 14 and 33-48 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected species, there being no allowable generic or linking claim. Election was made **without** traverse in the reply filed on 9/22/05.

Claims 13 and 21, although included in the elected claims, contain only limitations toward an inductor (multi-turn geometry describes an inductor), and not the elected generic "passive element" species. Therefore claim 13 is withdrawn.

Claims 14 and 22, although included in the elected claims, contains only limitations toward an inductor or a capacitor, and not the elected generic "passive element" species. Therefore claim 14 is withdrawn.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

4. Claims 9-12, 15-20 and 23-24 are rejected under 35 U.S.C. 102(b) as being anticipated by Pasch (US005821624A).

Pasch teaches the device of claims 9-12, 15-20 and 23-24 as follows.

Regarding claim 9, Pasch teaches a passive element (column 24 lines 39-41) between upper and lower dies (column 25 lines 22-24, substrate/interposer (spacer)/die stack, column 23 lines 7-8, substrate may be another die), and conductors attached to the passive element to at least one of the upper and lower dies (column 24 lines 53-58).

Regarding claim 10, adhesive layers are filled between the spacer (interposer) and the upper and lower dies (column 25 lines 22-24).

Regarding claim 11, the element may be a thin film (column 26 line 16, thin metal film, and as above, the thin film may also be a another passive device).

Regarding claim 12, the passive device is substantially thinner than the thickness of the spacer (figure 12A).

Regarding claim 15, the passive element may be electrically connected to the upper or lower dies using bumps (column 26 lines 10-16).

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Regarding claim 16, the lower die may be attached to a substrate using an adhesive (column 25 lines 19-20).

Regarding claim 17, Pasch teaches a package substrate (column 23 lines 24-26), a plurality of stacked dies (figure 11B), a spacer assembly between the upper and lower dies having a passive element (column 24 lines 39-41) between upper and lower dies (column 25 lines 22-24, substrate/interposer (spacer)/die stack, column 23 lines 7-8, substrate may be another die), and conductors attached to the passive element to at least one of the upper and lower dies (column 24 lines 53-58).

Regarding claim 18, adhesive layers are filled between the spacer (interposer) and the upper and lower dies (column 25 lines 22-24).

Regarding claim 19, the element may be a thin film (column 26 line 16, thin metal film, and as above, the thin film may also be a another passive device).

Regarding claim 20, the passive device is substantially thinner than the thickness of the spacer (figure 12A).

Regarding claim 23, the passive element may be electrically connected to the upper or lower dies using bumps (column 26 lines 10-16).

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Regarding claim 24, the lower die may be attached to a substrate using an adhesive (column 25 lines 19-20).

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to David S. Blum whose telephone number is (571)-272-1687) and e-mail address is David.blum@USPTO.gov.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Carl Whitehead Jr., can be reached at (571)-272-1702. Our facsimile number all patent correspondence to be entered into an application is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

David S. Blum

December 19, 2005